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AMENDMENTS TO THE CLAIMS

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This listing of claims will replace all prior versions and listings of claims in the application:

1. (Previously presented) A compound of Formula I:

wherein

A is selected from:

- (a) hydrogen;
- (b) $-(C=O)-O-R_1$, where R_1 is selected from:
 - 1. hydrogen,
 - 2. C₁-C₆ alkyl,
 - 3. C₃-C₁₂ cycloalkyl,
 - 4. substituted C₃-C₁₂ cycloalkyl,
 - 5. aryl,
 - 6. substituted aryl,
 - 7. heteroaryl,
 - 8. substituted heteroaryl,
 - 9. heterocycloalkyl,
 - 10. substituted heterocycloalkyl, or
 - 11.-C₁-C₆ alkyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;

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- (c) $-(C=O)-R_2$, where R_2 is selected from:
 - 1. $-R_1$, where R_1 is as previously defined,
 - 2. alkylamino,
 - 3. dialkyl amino,
 - 4. arylamino, or
 - 5. diarylamino;
- (d) $-C(=O)-NH-R_2$, where R_2 is as previously defined;
- (e) -C(=S)-NH-R2, where R2 is as previously defined;
- (f) $-S(O)_2-R_2$, where R_2 is as previously defined;

B is hydrogen or C₁–C₆ alkyl;

G is

- (a) OH;
- (b) $-O-(C_1-C_{12} \text{ alkyl});$
- (c) -NH-R₂, where R₂ is as previously defined;
- (d) $-NHS(O)_2-R_1$, where R_1 as previously defined;
- (e) -(C=O)-R₂, where R₂ as previously defined;
- (f) -(C=O)-O-R₁, where R₁ as previously defined; or
- (g) -(C=O)-NH-R2, where R2 as previously defined;

M is absent or selected from:

- (a) -O-;
- (b) -S-;
- (c) -NH-; or
- (d) –NR₁–, wherein R₁ is previously defined;

Q is selected from:

- (a) aryl;
- (b) substituted aryl;
- (c) heteroaryl;
- (d) substituted heteroaryl;
- (e) heterocycloalkyl; or
- (f) substituted heterocycloalkyl;

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j = 0, 1, 2, 3, or 4;

n = 0, 1, or 2; and

s = 0, 1, or 2.

2. (Previously presented) A compound of claim 1, wherein M is absent and Q is

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wherein X and Y are each independently selected from:

- a) —C₁–C₆ alkyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- b) —C₂–C₆ alkenyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- c) —C₂–C₆ alkynyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- d) aryl;
- e) substituted aryl;
- f) heteroaryl;
- g) substituted heteroaryl;
- h) heterocycloalkyl; or
- substituted heterocycloalkyl;

or in the alternative, X and Y are taken together with the carbons to which they are attached to for a cyclic moiety selected from: aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl.



- 3. (Previously presented) A compound of claim 1, wherein M is absent and Q is wherein Y is selected from:
 - a) -C₁-C₆ alkyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
 - b) -C₂-C₆ alkenyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
 - c) -C₂-C₆ alkynyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
 - d) aryl;
 - e) substituted aryl;
 - f) heteroaryl;
 - g) substituted heteroaryl;
 - h) heterocycloalkyl; or
 - i) substituted heterocycloalkyl.
- 4. (Previously presented) A compound of claim 1, wherein M is absent and Q is

wherein X, Y, and Z are each independently selected from:

a) -C₁-C₆ alkyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from

halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;

- b) -C₂-C₆ alkenyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- c) -C₂-C₆ alkynyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- d) aryl;
- e) substituted aryl;
- f) heteroaryl;
- g) substituted heteroaryl;
- h) heterocycloalkyl; or
- i) substituted heterocycloalkyl;
- or in the alternative, X and Y or Y and Z are taken together with the carbons to which they are attached to for a cyclic moiety selected from: aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl.
- 5. (Previously presented) A compound of claim 1, wherein M is absent and Q is

wherein W, X, Y, and Z are each independently selected from:

a) -C₁-C₆ alkyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;

- b) -C₂-C₆ alkenyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- -C₂-C₆ alkynyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- d) aryi;
- e) substituted aryl;
- f) heteroaryl;
- g) substituted heteroaryl;
- h) heterocycloalkyl; or
- i) substituted heterocycloalkyl;

or in the alternative, W and X, X and Y, or Y and Z are taken together with the carbons to which they are attached to for a cyclic moiety selected from: aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl.

6. (Previously presented) A compound of claim 1, wherein M is absent and Q is

$$x \stackrel{N}{\longrightarrow} x$$

wherein X, Y, and Z are each independently selected from:

- a) -C₁-C₆ alkyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- b) -C₂-C₆ alkenyl containing 0, 1, 2, or 3 heteroatoms selected from O, S,
 or N, optionally substituted with one or more substituent selected from

halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;

- c) -C₂-C₆ alkynyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- d) aryl;
- e) substituted aryl;
- f) heteroaryl;
- g) substituted heteroaryl;
- h) heterocycloalkyl; or
- substituted heterocycloalkyl;
- or in the alternative, Y and Z are taken together with the carbons to which they are attached to for a cyclic moiety selected from: aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl.
- 7. (Currently amended) A compound of claim 1, wherein M is -O- and Q is

wherein

L is M, where M is absent or selected from:

- (a) -0-;
- (b) -S-;
- (c) -NH-; or
- (d) $-NR_{1-}$, wherein R_{1} is as defined in claim 1;
- X, Y, and Z are each independently selected from:
 - a) -C₁-C₆ alkyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from

halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;

- b) -C₂-C₆ alkenyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- c) -C₂-C₆ alkynyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- d) aryl;
- e) substituted aryl;
- f) heteroaryl;
- g) substituted heteroaryl;
- h) heterocycloalkyl; or
- substituted heterocycloalkyl;
- or in the alternative, X and Y are taken together with the carbons to which they are attached to for a cyclic moiety selected from: aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl.
- 8. (Currently amended) A compound of claim 1, wherein M is -O- and Q is

wherein

L is M, where M is absent or selected from;

- (a) -0-;
- (b) -S-;
- (c) -NH-; or
- (d) -NR₁-, wherein R₁ is as defined in claim 1;

X, Y, and Z are each independently selected from:

a) —C₁—C₆ alkyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;

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- b) —C₂—C₆ alkenyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- c) —C₂—C₆ alkynyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- d) aryl;
- e) substituted aryl;
- f) heteroaryl;
- g) substituted heteroaryl;
- h) heterocycloalkyl; or
- i) substituted heterocycloalkyl;
 - or in the alternative, X and Y are taken together with the carbons to which they are attached to for a cyclic moiety selected from: aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl.
- 9. (Currently amended) A compound of claim 1, wherein M is -O- and Q is

wherein

L is M, where M is absent or selected from;

- (a) -0-;
- (b) -S-;
- (c) -NH-; or
- (d) $-NR_1$ -, wherein R_1 is as defined in claim 1;
- X, Y, and Z are each independently selected from:
- a) —C₁–C₆ alkyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- b) —C₂–C₆ alkenyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- c) —C₂–C₆ alkynyl containing 0, 1, 2, or 3 heteroatoms selected from O, S, or N, optionally substituted with one or more substituent selected from halogen, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl;
- d) aryl;
- e) substituted aryl;
- f) heteroaryl;
- g) substituted heteroaryl;
- h) heterocycloalkyl; or
- i) substituted heterocycloalkyl;
 - or in the alternative, X and Y are taken together with the carbons to which they are attached to for a cyclic moiety selected from: aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocycloalkyl, or substituted heterocycloalkyl.
- 10. (Previously presented) A compound according to claim 1 represented by formula I selected from:

- Compound of formula I, wherein A = Boc, B = hydrogen, G = OEt, M = -O-, Q = hydrogen, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OEt, M = -O-, Q = $-S(O)_2CH_3$, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OEt, M = -O-, Q = 2-thiophenyl-quinolin-4-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M = -O-, Q = 2-thiophenyl-quinolin-4-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OEt, M is absent, Q = 4,5-diphenyltriazol-2-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M is absent, Q = 4,5-di-thiophenyltriazol-2-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M is absent, Q = 4-(thiophen-3-yl)-5-(p-methoxyphenyl)triazol-2-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M is absent, Q = 4-(n-butyl)-5-phenyltriazol-2-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M is absent, Q = 5-(3-methoxyphenyl)tetrazol-2-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M is absent, Q = 5-(4-pyridyI)tetrazol-2-yl, and j = n = s = 1;

- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M is absent, Q = 5-(3,4-dichlorophenyl)tetrazol-2-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M is absent, Q = 5-(3-bromo-4-methoxy-phenyl)tetrazol-2-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M is absent, Q = 4-(4-fluoro-phenyl)-6-phenyl-1H-pyridazin-3-on-2-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M is absent, Q = 6-phenyl-5-piperidin-1-yl-1H-pyridazin-3-on-2-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M = -O-, Q = 7-Methoxy-2-phenyl-quinolin-4-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M = -O-, Q = 7- Methoxy-2-thiazolyl-quinolin-4-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M = -O-, Q = 7- Methoxy-2-thiophenyl-quinolin-4-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M = -O-, Q = 7-Methoxy-3-(thiophen-2-yl)-1H-quinoxalin-2-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M = -O-, Q = 6-Methoxy-3-(thiophen-2-yl)-1H-quinoxalin-2-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M = -O-, Q = 7-Methoxy-3-[2-(thiophen-2-yl)vinyl]-1H-quinoxalin-2-yl, and j = n = s = 1;

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- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M = -O-, Q = 6-Methoxy-3-[2-(thiophen-2-yl)vinyl]-1H-quinoxalin-2-yl, and j = n = s = 1;
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M = -O-, Q = 7-Methoxy-3-[2-(pyridin-2-yl)vinyl]-1H-quinoxalin-2-yl, and j = n = s = 1; or
- Compound of formula I, wherein A = Boc, B = hydrogen, G = OH, M = -O-, Q = 7-methoxy-3-[2-(pyridin -2-yl)vinyl]-1H-quinoxalin-2-yl, and j = n = s = 1.
- 11. (Previously presented) A pharmaceutical composition comprising an anti-hepatitis C virally effective amount of a compound according to claim 1, or a pharmaceutically acceptable salt, ester, or prodrug thereof, in combination with a pharmaceutically acceptable carrier or excipient.
- 12. (Previously presented) A method of treating a hepatitis C viral infection in a mammal, comprising administering to the mammal an anti-hepatitis C virally effective amount of a pharmaceutical composition according to claim 11.
- 13. (Previously presented) A method of inhibiting the replication of hepatitis C virus, the method comprising supplying a hepatitis C viral NS3 protease inhibitory amount of the pharmaceutical composition of claim 11.
- 14. (Previously presented) The method of claim 13 further comprising administering concurrently an additional anti-hepatitis C virus agent.
- 15. (Previously presented) The method of claim 14, wherein said additional antihepatitis C virus agent is selected from the group consisting of: α -interferon, β -interferon, ribavarin, and adamantine.
- 16. (Previously presented) The method of claim **14**, wherein said additional antihepatitis C virus agent is an inhibitor of another target in the hepatitis C virus life

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cycle, which is selected from the group consisting of: helicase, polymerase, metalloprotease, and Internal Ribosomal Entry Site (IRES).

17. (Currently amended) A process of making compounds of formula I:

wherein A, B, G, M, Q, j, n, and s are as defined in claim 1, comprising the steps of:

wherein A. B. (a) reacting a compound of formula (A):

and j is as defined in claim 1 with a hydroxyproline ethyl ester derivative of formula (B): in the presence of a base to form a compound of formula (C):

wherein A, B, and j are as defined in claim 1 and T is selected from OH, OMe, or OEt;

(b) reacting a compound of formula B with a compound of formula (D):

wherein G is as defined in claim 1,

to form a compound of formula (E):

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, wherein A, B, G, M, Q, and j are as defined in claim 1; and reacting compound of formula E with a Ruthenium-based <u>catalyst</u> thereby forming the compound of formula I.